ZONE _____ OF ____ ZONES

FIRE/SMOKE ZONE* EVALUATION WORKSHEET FOR HEALTH CARE FACILITIES

	1973 LIFE SAFETY CODE
FACILITY	BUILDING
ZONE(S) EVALUATED	
PROVIDER/VENDOR NO.	DATE OF SURVEY
COMPLETE THIS WORKSHEET FOR EACH ZONE WHER	CONDITIONS ARE THE SAME IN SEVERAL ZONES ONE

COMPLETE THIS WORKSHEET FOR EACH ZONE. WHERE CONDITIONS ARE THE SAME IN SEVERAL ZONES, ONE WORKSHEET CAN BE USED FOR THOSE ZONES.

Step 1: Determine Occupancy Risk Parameter Factors—Use Table 1.

A. For each Risk Parameter in Table 1, select and circle the appropriate risk factor value. Choose only one for each of the five Risk Parameters.

PANCY RISK	PARAI	METER	R FA	СТС	DRS	
RISK	FACT	ORS V	ALUE	ES		
MOBILITY STATUS	MOBILE				NOT MOVABLE	
RISK FACTORS	1.0	1.6	:	3.2	4.5	
PATIENT	1–5	6–10	11	-30	> 30	
RISK FACTOR	1.0	1.2		1.5	2.0	
FLOOR	1st	2nd or 3rd	4th to		& BASE-	
RISK FACTOR	1.1	1.2	1.4	1.0	6 1.6	
PATIENTS ATTENDANT	<u>1–2</u> 1	<u>3–5</u> 1	<u>6–10</u>	<u>> 1</u>	_	
RISK FACTORS	1.0	1.1 1.2		1.	5 4.0	
AGE					. & OVER YOUNGER	
RISK FACTOR	1	1.0		1.2		
	MOBILITY STATUS RISK FACTORS PATIENT RISK FACTOR FLOOR RISK FACTOR PATIENTS ATTENDANT RISK FACTORS AGE	RISK FACTOR MOBILITY STATUS RISK FACTORS 1.0 PATIENT 1–5 RISK FACTOR 1.0 FLOOR 1st RISK FACTOR 1.1 PATIENTS 1–2 ATTENDANT 1 RISK FACTORS 1.0 AGE UNDER	MOBILITY MOBILE LIMITE MOBILITY STATUS MOBILE MOBILITI RISK FACTORS 1.0 1.6	MOBILITY MOBILE LIMITED MOBILITY M	STATUS	

Step 2: Compute Occupancy Risk Factor (F) — Use Table 2.

A. Transfer the circled risk factor values from Table 1 to the corresponding blocks in Table 2.

B. Compute F by multiplying the risk factor values as indicated in Table 2.

TABLE 2. OC	CUPA	NCY R	SK F	ACTOF	CAI	LCUL	.ATI	ON	
	M	D		L	Т		Α		F
OCCUPANCY RISK		Х	Х	Х		х		=	

Step 3: Compute Adjusted Building Status (R) — Use Table 2.

A. If building is classified as "NEW" use Table 3A. If building is classified as "Existing" use Table 3B.

B. Transfer the value of F from Table 2 to Table 3A or Table 3B as appropriate. Calculate R.

C.Transfer R to the block labeled R in Table 7 on page 4 of the worksheet.

TABLE 3A. ((NEW BUILDINGS)
1.0 X	F R

TABLE 3B. (E)	KISTING	BUILDINGS)
0.5 X	F =	R

* FIRE/SMOKE ZONE is a space separated from all other spaces by floors, horizontal exits, or smoke barriers.

SURVEYOR SIGNATURE	TITLE	DATE
FIRE AUTHORITY SIGNATURE	TITLE	DATE

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Step 4: Determine Safety Parameter Values—Use Table 4.

A. Select and circle the safety value for each safety parameter in Table 4 that best describes the conditions in the zone. Choose only one value for each of the 13 parameters. If two or more appear to apply, choose the one with the lowest point value.

TABLE 4.	SAFETY PARAMETERS VALUES PARAMETERS VALUES									
PARAMETERS										
1. CONSTRUCTION	WOOD FRAM		JSTIBLE	ORDINARY NON-COMBUSTIBLE						
FLOOR OF ZONE	UNPROTECTED PRO	OTECTED	UNPROTE		PROTECTED	PROTECTED	UNPR	OTECTED	FIRE RESIST	
FIRST SECOND	- <u>2</u> -7	-2	- <u>2</u>		0 -2	-2		2	2 4	
THIRD	-9	-7	-9		-7	-7		2	4	
FOURTH & ABOVE	-13	-7	-13		-7	-9	1	-7	4	
2. INTERIOR FINISH (Corridors & Exits)	CLASS C		.SS B		CLASS A					
	-5		0		3					
3. IINTERIOR FINISH	CLASS C	CLA	SS B		CLASS A					
(Rooms)	-3		1		3					
4. CORRIDOR	NONE OR INCOMPLETE	< 1/3	3 H.R.	≥ 1	/3 < 1.0 H.R.	≥ 1.0 H.R.				
PARTITIONS/WALLS	-10 (0) a		0		1 (0) a	2 (0) a				
5. DOORS TO	NO DOOR	< 20 MIN FPR.		≥ 2	0 MIN FPR.	≥ 20 MIN. FPR AUTO CLOS				
CORRIDOR	-10		0		1 (0) d	2 (0) d				
	DEAD END	DEAL	D END		NO DEA	D END > 30' & 2	ZONE I	ENGTH I	S:	
6. ZONE DIMENSIONS	MORE THAN 100'	30' -	- 100'		> 150'	100' – 150)'	< 100'		
	-6 (0) b	-4 (0) b			-2	0		1		
	OPEN 4 OR MORE OPEN 2 OR 3		ENCLOSED WITH INDICATED				IRE RES	IST.		
7. VERTICAL OPENINGS	FLOORS	FLOORS			< 1 H.R.	≥ 1 H.R. < 2 I	H.R.	≥ 2 H.R.		
	-14	-10		0		2 (0) e		3 (0) e		
	DOUBLE D	EFICIENCY	<i>(</i>	SINGLE DEFICIENCY					NO	
8. HAZARDOUS AREAS	IN ZONE	OUTSIDE ZONE		IN ZONE		IN ADJACENT ZONE		DEFICIENCIES		
	-11	-	-5		-6	-2			0	
	NO CONTROL	SMOKE	BARRIER		MECH. ASSIST	TED SYSTEMS				
9. SMOKE CONTROL	2 (0) f		0		BY ZONE	BY CORRIDE	ĒR			
	-2 (0) f		0		3	4				
	< 2 ROUTES			MULTIPLE ROUTES						
10. EMERGENCY MOVEMENT ROUTES		DEFICIENT		W/O	HORIZONTAL EXIT(S)	HORIZONTAL EXIT(S)		DIRE	CT EXIT(S)	
	-8	-	-2		0	3			5	
44 MANUAL FIRE	NO MANUAL	FIRE ALAF	RM	MANUAL FIRE ALARM						
11. MANUAL FIRE ALARM				W/O F.D. CONN.		W/F.D. CON	IN.			
7127111111		4			1	2				
12. SMOKE DETECTION & ALARM	NONE	CORRID	OR ONLY	RC	OMS ONLY	CORRIDOR HABIT. SPA			AL SPACE I ZONE	
∞ / 1Ε/ (((()	0		2		3	4			5	
13. AUTOMATIC	NONE	CORI	RIDOR		DRRIDOR & BIT. SPACE	TOTAL BUIL	.D.			
SPRINKLERS	0	2	(0) f		8	10				

NOTE: a. Use (0) when item 5 is -10.

b. Use (0) when item 10 is -8.

c. Use (0) on floor with less than 31 patients (existing buildings ONLY).

- d. Use (0) when item 4 is -10.
- e. Use (0) when item 1 is based on first floor zone or on an unprotected type of construction.
- f. Use (0) when item 1 is based on an unprotected type of construction.

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- **Step 5:** Compute Individual Safety Evaluations—Use Table 5.
 - A. Transfer each of the 13 circled Safety Parameter Values from Table 4 to every unshaded block in the line with the corresponding Safety Parameter in Table 5. For Safety Parameter 13 (Sprinklers) the value entered in the People Movement Safety column is recorded in Table 5 as 1/2 the corresponding value circled in Table 4.

 - B. Add the four columns, keeping in mind that any negative numbers deduct.
 C. Transfer the resulting total values for S₁, S₂, S₃, S_G to blocks labeled S₁, S₂, S₃, S_G in Table 7 on page 4 of

TABLE 5.	INDIVIDUAL SAFETY EVALUATIONS							
SAFETY PARAMETERS	CONTAINMENT SAFETY (S ₁)	EXTINGUISHMENT SAFETY (S ₂)	PEOPLE MOVEMENT SAFETY (S ₃)	GENERAL SAFETY (S _G)				
1. CONSTRUCTION								
2. INTERIOR FINISH (Corr. & Exit)								
3. INTERIOR FINISH (Rooms)								
4. CORRIDOR PARTITIONS/WALLS								
5. DOORS TO CORRIDOR								
6. ZONE DIMENSIONS								
7. VERTICAL OPENINGS								
8. HAZARDOUS AREAS								
9. SMOKE CONTROL								
10. EMERGENCY MOVEMENT ROUTES								
11. MANUAL FIRE ALARM								
12. SMOKE DETECTION & ALARM								
13. AUTOMATIC SPRINKLERS			÷2 =					
TOTAL VALUE	S ₁ =	S ₂ =	S ₃ =	S _G =				

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- Step 6: Determine Mandatory Safety Requirement Values—Use Table 6.
 - A. Using the classification of the building (i.e., New or Existing) and the floor where the zone is located, circle the appropriate value in each of the three columns in Table 6.
 - B. Transfer the three circled values from Table 6 to the blocks marked S_a , S_b , and S_c in Table 7.

TABLE 6. MANDATORY SAFETY REQUIREMENTS							
	CONTAIN	MENT (S _a)	EXTINGUIS	HMENT (S _b)	PEOPLE MOVEMENT (S _C)		
ZONE LOCATION	NEW	EXIST.	NEW	EXIST.	NEW	EXIST.	
FIRST FLOOR	9	4	6	3	6	1	
ABOVE OR BELOW FIRST FLOOR	14	8	8	5	9	3	

- Step 7: Evaluation of Fire Safety Equivalency—Use Table 7.
 - A. Perform the indicated subtractions in Table 7. Enter the differences in the appropriate answer blocks.
 - B. For each row check "Yes" if the value in the answer block is zero or greater. Check "No" if the value in the answer block is a negative number.

TABLE 7.	ZONE SAFETY EQUIVALENCY EVALUATION						NO
CONTAINMENT SAFETY (S ₁)	less	MANDATORY CONTAINMENT	(S _a)	≥ 0	$ \begin{array}{c c} S_1 & S_a & C \\ \hline \end{array} = \begin{bmatrix} \end{array} $		
EXTINGUISHMENT SAFETY (S ₂)	less	MANDATORY EXTINGUISHMENT	(S _b)	≥ 0	$\begin{array}{c c} S_2 & S_b & E \\ \hline \end{array}$		
PEOPLE MOVEMENT SAFETY (S ₃)	less	MANDATORY PEOPLE MOVEMENT	(S _c)	≥ 0	$\begin{array}{c cccc} S_3 & S_c & P \\ \hline \end{array} = \begin{array}{c cccc} \end{array}$		
GENERAL SAFETY (S _G)	less	OCCUPANCY RISK	(R)	≥ 0	$ \begin{array}{c c} S_G & R & G \\ \hline & - & = \\ \hline \end{array} $		

CONCLUSIONS
1. ☐ All of the checks in Table 7 are in the "Yes" column. The level of fire safety is at least equivalent to that prescribed by the Life Safety Code.*
 □ One of more of the checks in Table 7 are in the "No" column. The level of fire safety is not shown by this system to be equivalent to that prescribed by the Life Safety Code.*
*The equivalency covered by this worksheet includes the majority of considerations covered by the Life Safety Code. There are a few considerations that are covered in the "Facility Fire Safety Requirements Worksheet," (Table 8). One copy of this separate worksheet is to be completed for each facility.

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